

Atty. Docket No.: P65141US0
Serial No.: 09/508,095

R₁-Y(CRRPAIAINNPYVPRTYYANPAVVRPHAQIPQRQYLPNSHPPTVVRPNLHPSF-R₂),
(SEQ ID NO: 17),

R₁-GHR₂RSVQWCTVSQPEATKCFQWQRNMRVRGPPVSCIKRDSPICQCIQA-R₂,
(SEQ ID NO: 18),

R₁-GHR₂RSVQWCAVSQPEATKCFQWQRNMRKVRGPPVSCIKRDSPICQCIQA-R₂,
(SEQ ID NO: 19),

R₁-GHR₂RSVQWCAVSQPEATKCFQWQRNMRKVRGPPVSCIKRDSPICQCIQA-R₂,
(SEQ ID NO: 20),

R₁-VYQHQKAMPKPWIQPKTKVIPYVRYL-R₂ (SEQ ID NO: 21),

R₁-AHRARVVWAAVG-R₂ (SEQ ID NO: 22),

R₁-C₁AVGGCCIAL-R₂ (SEQ ID NO: 23), or

R₁-R₂TRKYWC₁QGARGGCITL-R₂ (SEQ ID NO: 24),

wherein

R₁, R₃ independently represents NH₂, an amino acid, or a peptide containing up to 100 amino acids,
and

R₂, R₄ independently represents COOH, CONH₂, an amino acid, or a peptide containing up to 100
amino acids;

and the amidated acetylated, sulfated, phosphorylated, glycosylated, oxidized derivatives or
fragments thereof having bifidogenic properties.